

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/803,810DATE: 03/30/2001
TIME: 14:50:30Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\03302001\I803810.raw#2
ENTERED

4 <110> APPLICANT: Nelsetstuen, Gary L.
6 <120> TITLE OF INVENTION: MODIFIED VITAMIN K-DEPENDENT
7 POLYPEPTIDES
9 <130> FILE REFERENCE: 09531/002001
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/803,810
C--> 12 <141> CURRENT FILING DATE: 2001-03-12
14 <160> NUMBER OF SEQ ID NOS: 18
16 <170> SOFTWARE: FastSEQ for Windows Version 3.0
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 44
20 <212> TYPE: PRT
21 <213> ORGANISM: Homo sapiens
23 <220> FEATURE:
24 <221> NAME/KEY: MOD_RES
25 <222> LOCATION: (0)...(0)
26 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
29 <400> SEQUENCE: 1
W--> 30 Ala Asn Ser Phe Leu Xaa Xaa Leu Arg His Ser Ser Leu Xaa Arg Xaa
31 1 5 10 15
W--> 32 Cys Ile Xaa Xaa Ile Cys Asp Phe Xaa Xaa Ala Lys Xaa Ile Phe Gln
33 20 25 30
34 Asn Val Asp Asp Thr Leu Ala Phe Trp Ser Lys His
35 35 40
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 44
39 <212> TYPE: PRT
40 <213> ORGANISM: Bos taurus
42 <220> FEATURE:
43 <221> NAME/KEY: MOD_RES
44 <222> LOCATION: (0)...(0)
45 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
48 <400> SEQUENCE: 2
W--> 49 Ala Asn Ser Phe Leu Xaa Xaa Leu Arg Pro Gly Asn Val Xaa Arg Xaa
50 1 5 10 15
W--> 51 Cys Ser Xaa Xaa Val Cys Xaa Phe Xaa Xaa Ala Arg Xaa Ile Phe Gln
52 20 25 30
W--> 53 Asn Thr Xaa Asp Thr Met Ala Phe Trp Ser Phe Tyr
54 35 40
56 <210> SEQ ID NO: 3
57 <211> LENGTH: 44
58 <212> TYPE: PRT
59 <213> ORGANISM: Homo sapiens
61 <220> FEATURE:
62 <221> NAME/KEY: MOD_RES
63 <222> LOCATION: (0)...(0)
64 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
66 <400> SEQUENCE: 3

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W--> 67 Ala Asn Ala Phe Leu Xaa Xaa Leu Arg Pro Gly Ser Leu Xaa Arg Xaa
68 1 5 10 15
W--> 69 Cys Lys Xaa Xaa Gln Cys Ser Phe Xaa Xaa Ala Arg Xaa Ile Phe Lys
70 20 25 30
W--> 71 Asp Ala Xaa Arg Thr Lys Leu Phe Trp Ile Ser Tyr
72 35 40
74 <210> SEQ ID NO: 4
75 <211> LENGTH: 44
76 <212> TYPE: PRT
77 <213> ORGANISM: Bos taurus
79 <220> FEATURE:
80 <221> NAME/KEY: MOD_RES
81 <222> LOCATION: (0)...(0)
82 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
84 <400> SEQUENCE: 4
W--> 85 Ala Asn Gly Phe Leu Xaa Xaa Leu Arg Pro Gly Ser Leu Xaa Arg Xaa
86 1 5 10 15
W--> 87 Cys Arg Xaa Xaa Leu Cys Ser Phe Xaa Xaa Ala His Xaa Ile Phe Arg
88 20 25 30
W--> 89 Asn Xaa Xaa Arg Thr Arg Gln Phe Trp Val Ser Tyr
90 35 40
92 <210> SEQ ID NO: 5
93 <211> LENGTH: 45
94 <212> TYPE: PRT
95 <213> ORGANISM: Homo sapiens
97 <220> FEATURE:
98 <221> NAME/KEY: MOD_RES
99 <222> LOCATION: (0)...(0)
100 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
102 <400> SEQUENCE: 5
W--> 103 Tyr Asn Ser Gly Lys Leu Xaa Xaa Phe Val Gln Gly Asn Leu Xaa Arg
104 1 5 10 15
W--> 105 Xaa Cys Met Xaa Xaa Lys Cys Ser Phe Xaa Xaa Ala Arg Xaa Val Phe
106 20 25 30
W--> 107 Xaa Asn Thr Xaa Arg Thr Thr Xaa Phe Trp Lys Gln Tyr
108 35 40 45
110 <210> SEQ ID NO: 6
111 <211> LENGTH: 46
112 <212> TYPE: PRT
113 <213> ORGANISM: Bos taurus
115 <220> FEATURE:
116 <221> NAME/KEY: MOD_RES
117 <222> LOCATION: (0)...(0)
118 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
120 <400> SEQUENCE: 6
W--> 121 Tyr Asn Ser Gly Lys Leu Xaa Xaa Phe Val Gln Gly Asn Leu Xaa Arg
122 1 5 10 15
W--> 123 Xaa Cys Met Xaa Xaa Lys Cys Ser Phe Xaa Xaa Ala Arg Xaa Val Phe
124 20 25 30

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Input Set : A:\Seqlist.txt
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W--> 125 Xaa Asn Thr Xaa Lys Arg Thr Thr Xaa Phe Trp Lys Gln Tyr
126 35 40 45
128 <210> SEQ ID NO: 7
129 <211> LENGTH: 36
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
136 <400> SEQUENCE: 7
137 aaattaatac gactcaatat agggagaccc aagctt 36
139 <210> SEQ ID NO: 8
140 <211> LENGTH: 42
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
147 <400> SEQUENCE: 8
148 gcactccgcg tccaggctgc tgggacggag ctcctccagg aa 42
150 <210> SEQ ID NO: 9
151 <211> LENGTH: 36
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
158 <400> SEQUENCE: 9
159 acgctccacg ttgcctgtgc gcagctccctc taggaa 36
161 <210> SEQ ID NO: 10
162 <211> LENGTH: 36
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
169 <400> SEQUENCE: 10
170 ttccttagagg agctgcggca cggcaacgtg gagcgt 36
172 <210> SEQ ID NO: 11
173 <211> LENGTH: 36
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
180 <400> SEQUENCE: 11
181 gcatttaggt gacactatag aatagggccc tctaga 36
183 <210> SEQ ID NO: 12
184 <211> LENGTH: 42
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
191 <400> SEQUENCE: 12

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Input Set : A:\Seqlist.txt

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192 gaaggccatt gtgtcttccg tgtcttcgaa aatctcccga gc 42
 194 <210> SEQ ID NO: 13
 195 <211> LENGTH: 36
 196 <212> TYPE: DNA
 197 <213> ORGANISM: Artificial Sequence
 199 <220> FEATURE:
 200 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
 202 <400> SEQUENCE: 13
 203 cagtgtgtca tccacatctt cgaaaatttc cttggc 36
 205 <210> SEQ ID NO: 14
 206 <211> LENGTH: 36
 207 <212> TYPE: DNA
 208 <213> ORGANISM: Artificial Sequence
 210 <220> FEATURE:
 211 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
 213 <400> SEQUENCE: 14
 214 gccaaggaaa ttttgcaga tgtggatgac acactg 36
 216 <210> SEQ ID NO: 15
 217 <211> LENGTH: 36
 218 <212> TYPE: DNA
 219 <213> ORGANISM: Artificial Sequence
 221 <220> FEATURE:
 222 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
 224 <400> SEQUENCE: 15
 225 cagtgtgtca tccacatttt cgaaaatttc cttggc 36
 227 <210> SEQ ID NO: 16
 228 <211> LENGTH: 36
 229 <212> TYPE: DNA
 230 <213> ORGANISM: Artificial Sequence
 232 <220> FEATURE:
 233 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
 235 <400> SEQUENCE: 16
 236 gccaaggaaa ttttgcaaaaa tgtggatgac acactg 36
 238 <210> SEQ ID NO: 17
 239 <211> LENGTH: 45
 240 <212> TYPE: PRT
 241 <213> ORGANISM: Bos taurus
 243 <220> FEATURE:
 244 <221> NAME/KEY: MOD_RES
 245 <222> LOCATION: (0)...(0)
 246 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
 248 <400> SEQUENCE: 17
 W--> 249 Ala Asn Lys Gly Phe Leu Xaa Xaa Val Arg Lys Gly Asn Leu Xaa Arg
 250 1 5 10 15
 W--> 251 Xaa Cys Leu Xaa Xaa Pro Cys Ser Arg Xaa Xaa Ala Phe Xaa Ala Leu
 252 20 25 30
 W--> 253 Xaa Ser Leu Ser Ala Thr Asp Ala Phe Trp Ala Lys Tyr
 254 35 40 45
 256 <210> SEQ ID NO: 18

RAW SEQUENCE LISTING

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257 <211> LENGTH: 44
258 <212> TYPE: PRT
259 <213> ORGANISM: Bos taurus
261 <220> FEATURE:
262 <221> NAME/KEY: MOD_RES
263 <222> LOCATION: (0)...(0)
264 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
266 <400> SEQUENCE: 18

W--> 267 Ala Asn Ser Phe Leu Xaa Xaa Val Lys Gln Gly Asn Leu Xaa Arg Xaa
268 1 5 10 15

W--> 269 Cys Leu Xaa Xaa Ala Cys Ser Leu Xaa Xaa Ala Arg Xaa Val Phe Xaa
270 20 25 30

W--> 271 Asp Ala Xaa Gln Thr Asp Xaa Phe Trp Ser Lys Tyr
272 35 40

VERIFICATION SUMMARY
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Input Set : A:\Seqlist.txt
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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:30 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:32 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:69 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18